P#15

OIPE

RAW SEQUENCE LISTING   DATE: 06/28/2001
PATENT APPLICATION: US/09/524,531A   TIME: 16:11:04

Input Set : A:\11422679.app
Output Set: N:\CRF3\06282001\I524531A.raw

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   3 <110> APPLICANT: IMHOF, BEAT ALBET
   4        AURRAND-LIONS, MICHEL
   6 <120> TITLE OF INVENTION: VASCULAR ADHESION MOLECULES AND MODULATION OF THEIR
   7        FUNCTION
   9 <130> FILE REFERENCE: 11422/0264679
  11 <140> CURRENT APPLICATION NUMBER: 09/524,531A
C--> 12 <141> CURRENT FILING DATE: 2001-06-18
  14 <150> PRIOR APPLICATION NUMBER: EP 99.200746.8
  15 <151> PRIOR FILING DATE: 1999-03-11
  17 <160> NUMBER OF SEQ ID NOS: 21
  19 <170> SOFTWARE: PatentIn Ver. 2.1
  21 <210> SEQ ID NO: 1
  22 <211> LENGTH: 20
  23 <212> TYPE: DNA
  24 <213> ORGANISM: Artificial Sequence
  26 <220> FEATURE:
  27 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
  29 <220> FEATURE:
  30 <221> NAME/KEY: modified_base
  31 <222> LOCATION: (6)
  32 <223> OTHER INFORMATION: a, t, c, g, other or unknown
  34 <220> FEATURE:
  35 <221> NAME/KEY: modified_base
  36 <222> LOCATION: (10)..(12)
  37 <223> OTHER INFORMATION: a, t, c, g, other or unknown
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  52 <221> NAME/KEY: modified_base
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  54 <223> OTHER INFORMATION: a, t, c, g, other or unknown
  56 <400> SEQUENCE: 2
W--> 57 taycrgtgyn nngcytcyaa                                    20
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  61 <211> LENGTH: 20
  62 <212> TYPE: DNA
  63 <213> ORGANISM: Artificial Sequence
  65 <220> FEATURE:
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  69 <221> NAME/KEY: modified_base
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ENTERED

See p. 5

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        70 <222> LOCATION: (10)..(12)
        71 <223> OTHER INFORMATION: a, t, c, g, other or unknown
        73 <400> SEQUENCE: 3
W--> 74 taytaytgyń ńńgcytcyaa                                      20
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        78 <211> LENGTH: 18
        79 <212> TYPE: DNA
        80 <213> ORGANISM: Artificial Sequence
        82 <220> FEATURE:
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        86 gaggtacttg catgtgct                                      18
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        90 <211> LENGTH: 19
        91 <212> TYPE: DNA
        92 <213> ORGANISM: Artificial Sequence
        94 <220> FEATURE:
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        98 cgacaggtgt cagataaca                                      19
       101 <210> SEQ ID NO: 6
       102 <211> LENGTH: 16
       103 <212> TYPE: DNA
       104 <213> ORGANISM: Artificial Sequence
       106 <220> FEATURE:
       107 <223> OTHER INFORMATION: Description of Artificial Sequence: primer
       109 <400> SEQUENCE: 6
       110 caccctcctc actcgt                                        16
       113 <210> SEQ ID NO: 7
       114 <211> LENGTH: 18
       115 <212> TYPE: DNA
       116 <213> ORGANISM: Artificial Sequence
       118 <220> FEATURE:
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       120       for detection of JAM-2 transcript
       122 <400> SEQUENCE: 7
       123 gactcacaga caagtgac                                      18
       126 <210> SEQ ID NO: 8
       127 <211> LENGTH: 16
       128 <212> TYPE: DNA
       129 <213> ORGANISM: Artificial Sequence
       131 <220> FEATURE:
       132 <223> OTHER INFORMATION: Description of Artificial Sequence: primer used
       133       for detection JAM-2 transcript
       135 <400> SEQUENCE: 8
       136 caccctcctc actcgt                                        16
       139 <210> SEQ ID NO: 9
       140 <211> LENGTH: 25
       141 <212> TYPE: DNA
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144 <220> FEATURE:
145 <223> OTHER INFORMATION: Description of Artificial Sequence: primer for
146      Hprt cDNA
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149 gttggataca ggccagactt tgttg                                        25
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153 <211> LENGTH: 23
154 <212> TYPE: DNA
155 <213> ORGANISM: Artificial Sequence
157 <220> FEATURE:
158 <223> OTHER INFORMATION: Description of Artificial Sequence: primer for
159      Hprt cDNA
161 <400> SEQUENCE: 10
162 gagggtaggc tggcctatag gct                                          23
165 <210> SEQ ID NO: 11
166 <211> LENGTH: 1943
167 <212> TYPE: DNA
168 <213> ORGANISM: Mus musculus
170 <400> SEQUENCE: 11
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172 tgcctgactt cttcctgctg ctgctcttca ggggctgcat gatagaggca gtgaatctca 120
173 aatccagcaa ccgaaaccca gtggtacatg aatttgaaag tgtggaattg tcttgcatca 180
174 ttacggactc acagacaagt gaccctagga ttgaatggaa gaaaatccaa gatggccaaa 240
175 ccacatatgt gtattttgac aacaagattc aaggagacct ggcaggtcgc acagatgtgt 300
176 ttggaaaaac ttccctgagg atctggaatg tgacacgatc ggattcagcc atctatcgct 360
177 gtgaggtcgt tgctctaaat gaccgaaaag aagttgatga gattaccatt gagttaattg 420
178 tgcaagtgaa gccagtgacc cctgtctgca gaattccagc cgctgtacct gtaggcaaga 480
179 cggcaacact gcagtgccaa gagagcgagg gctatccccg gcctcactac agctggtacc 540
180 gcaatgatgt gccactgcct acagattcca gagccaatcc caggttccag aattcctctt 600
181 tccatgtgaa ctcggagaca ggcactctgg ttttcaatgc tgtccacaag gacgactctg 660
182 ggcagtacta ctgcattgct tccaatgacg caggtgcagc caggtgtgag gggcaggaca 720
183 tggaagtcta tgatttgaac attgctggga ttattggggg agtccttgtt gtccttattg 780
184 ttcttgctgt gattacgatg ggcatctgct gtgcgtacag acgaggctgc ttcatcagca 840
185 gtaaacaaga tggagaaagc tataagagcc cagggaagca tgacggtgtt aactacatcc 900
186 ggacgagtga ggagggtgac ttcagacaca aatcgtcctt tgttatctga cacctgtcgg 960
187 ctgggagagc acatgcaagt acctctgttg gaagctggtc acaggctgc tgtgagccca 1020
188 gagctcctga caaagccacc cgggcagaag cttttgttt tggccaaagt tgatgactcc 1080
189 ttccttcctt ccttcctctt taacaagcca caagaataaa aggaagcctc ctgaagatgg 1140
190 atgtagacac agattgttgc tagcctgacc tcattatggg gattagggtg atcttcaagg 1200
191 cctttctggt ctccgttctc ccatgcaggg caatttggac tgttttgcc ccaggctgtt 1260
192 tagctgccag gacaacactg gcagagagag gctgaggcgc tgggctgcag tagcagcagg 1320
193 caacagcctg atgcctgtga cagtgcccca ggaaggtttt caggcagtgc cttgctccct 1380
194 ggaccctgac ccaccgtgtt gcctctgttg attggccagt actgtcattt ccatcctgga 1440
195 gaatgtgttt ggaatcagca ttttataaaa aacccaaatc agaaaggtga aattgcttgc 1500
196 tgggaagagg gctctgaccc aggaaactct ccttcccaag agatgccagg agataggaga 1560
197 acctgtctgt cttaagtctg aaatggtact gaagtctcct tttctattgg tcttgcttat 1620
198 tttataaaaa tttaacattc taaattttgc tagagatgta ttttgattac tgaaaatttc 1680
199 tatataaact gtaaatatat tgccatacag tgtttcaaaa cgtattttt tataatgagt 1740
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PATENT APPLICATION: US/09/524,531A   TIME: 16:11:04

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Output Set: N:\CRF3\06282001\I524531A.raw

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200 tcaacttaag gtagaaggct tgggctgcta gtgtttaatt ggaaaatacc agtagtaaag 1800
201 tcttttaagg agttttctta aggaggctgg ctgaatattc ctttgttcaa aagaagtttt 1860
202 agcatttttc ataagaaaac ttactctgtc tgaccactgt tgcttaggaa accattaaag 1920
203 aattccaatc taaaaaaaaa aaa                                        1943
206 <210> SEQ ID NO: 12
207 <211> LENGTH: 1631
208 <212> TYPE: DNA
209 <213> ORGANISM: Mus musculus
211 <400> SEQUENCE: 12
212 mcramcagaa ttcggcacga gggtctgggg gcgggggggcc gacctacggg ttctccctca 60
213 agagctaatc tctgccgcca ctcgcttagg accctgcgga caccgcgtcc cgcgtccacg 120
214 ccctcccctc aaccctcttc cacccttcaa aagaaggact gtccagacac cacgtcctag 180
215 ggccagaaga cctgccccca cgacagtcgc tggagacacc ccagaccgga gagactgaca 240
216 tcgggacagg acccgcccct. ctgcttccac ctctcaggga cctcctctgc tccgccgccg 300
217 ggcgaagtgc tgggagaccc agccgcctgt cgcgctcctg cagggggacc ctcagctagg 360
218 cagccagctg gcgcccgcgt agatggcgag gagcccccaa ggcctcctga tgctgctgct 420
219 gctacactac ttgatcgtcg ccctggacta tcataaggca aatgggtttt ctgcatcaaa 480
220 agaccaccgt caagaagtca cagtaataga gttccaagag gctattttgg cttgtaaaac 540
221 cccaaagaag actacctcct ccagactgga gtggaagaag gtgggacagg gggtctcctt 600
222 ggtctactac caacaggctc tccaaggtga ctttaaagac cgtgctgaga tgatagattt 660
223 caatatacga atcaaaaatg ttacaagaag tgatgctgga gagtatcgct gtgaagtcag 720
224 cgctccgact gagcaaggcc agaacctgca ggaagataaa gtcatgctag aagtactagt 780
225 ggctcctgct gttcctgcct gtgaagtgcc cacttctgtt atgactggaa gtgtggtgga 840
226 gctacgatgc caggataaag aaggaaaccc agctccggag tacatctggt ttaaagatgg 900
227 cacaagtttg ctagggaatc caaaaggcgg cacacacaac aacagctcgt acacaaatga 960
228 acacgaatct ggaattctgc aattcaacat gatttccaag atggacagtg gagagtatta 1020
229 ctgcgaagcc cggaactctg tcggacaccg caggtgccct gggaagcgaa tgcaagtaga 1080
230 tgttctcaac ataagcggca tcatagcaac ggttgtggtg gtggccttcg tgatttctgt 1140
231 atgtggcctt ggcacatgct atgctcagag gaaaggctac ttttcaaaag aaacttcctt 1200
232 ccagaagggc agtcctgcat ctaaagtcac tacgatgggc gaaaatgatt tcaggcacac 1260
233 aaaatccttt ataatttaaa agaattccag ttttgggctg cccaaaacca gttgtcacat 1320
234 gttattaaaa tattgtaaaa ctctgtgtct tacacttgca aagtgatgaa gaaatatgaa 1380
235 aggggagttc atcagaagtt ttatgatctc taactcacaa gaaatatttt aagcaaaacg 1440
236 ttcttgccat cactaaatta caacctggca tcttgtgttg acctaaagga aatgtctggt 1500
237 aatattctgg tttttgaagg caaatgaatg tcagtttgga gttgactata tcacactgac 1560
238 tgtaaggcta atccaagaag caagaatata aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 1620
239 aaaaaaattt c                                                    1631
242 <210> SEQ ID NO: 13
243 <211> LENGTH: 310
244 <212> TYPE: PRT
245 <213> ORGANISM: Mus musculus
247 <400> SEQUENCE: 13
248 Met Ala Leu Ser Arg Arg Leu Arg Leu Arg Leu Tyr Ala Arg Leu Pro
249  1               5                  10                  15
251 His Phe Phe Leu Leu Leu Leu Phe Arg Gly Cys Met Ile Glu Ala Val
252              20                  25                  30
254 Asn Leu Lys Ser Ser Asn Arg Asn Pro Val Val His Glu Phe Glu Ser
255          35                  40                  45
257 Val Glu Leu Ser Cys Ile Ile Thr His Ser Gln Thr Ser Asp Pro Arg
```

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PATENT APPLICATION: US/09/524,531A   TIME: 16:11:04

Input Set : A:\11422679.app
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```
258      50                    55                    60
260 Ile Glu Trp Lys Lys Ile Gln Asp Gly Gln Thr Thr Tyr Val Tyr Phe
261 65                    70                    75                    80
263 Asp Asn Lys Ile Gln Gly Asp Leu Ala Gly Arg Thr Asp Val Phe Gly
264                   85                    90                    95
266 Lys Thr Ser Leu Arg Ile Trp Asn Val Thr Arg Ser Asp Ser Ala Ile
267             100                   105                   110
269 Tyr Arg Cys Glu Val Val Ala Leu Asn Asp Arg Lys Glu Val Asp Glu
270             115                   120                   125
272 Ile Thr Ile Glu Leu Ile Val Gln Val Lys Pro Val Thr Pro Val Cys
273       130                   135                   140
275 Arg Ile Pro Ala Ala Val Pro Val Gly Lys Thr Ala Thr Leu Gln Cys
276 145                   150                   155                   160
278 Gln Glu Ser Glu Gly Tyr Pro Arg Pro His Tyr Ser Trp Tyr Arg Asn
279             165                   170                   175
281 Asp Val Pro Leu Pro Thr Asp Ser Arg Ala Asn Pro Arg Phe Gln Asn
282             180                   185                  .190
284 Ser Ser Phe His Val Asn Ser Glu Thr Gly Thr Leu Val Phe Asn Ala
285       195                   200                   205
287 Val His Lys Asp Asp Ser Gly Gln Tyr Tyr Cys Ile Ala Ser Asn Asp
288       210                   215                   220
290 Ala Gly Ala Ala Arg Cys Glu Gly Gln Asp Met Glu Val Tyr Asp Leu
291 225                   230                   235                   240
293 Asn Ile Ala Gly Ile Ile Gly Gly Val Leu Val Val Leu Ile Val Leu
294             245                   250                   255
296 Ala Val Ile Thr Met Gly Ile Cys Cys Ala Tyr Arg Arg Gly Cys Phe
297             260                   265                   270
299 Ile Ser Ser Lys Gln Asp Gly Glu Ser Tyr Lys Ser Pro Gly Lys His
300             275                   280                   285
302 Asp Gly Val Asn Tyr Ile Arg Thr Ser Glu Glu Gly Asp Phe Arg His
303 .    290                   295                   300  .
305 Lys Ser Ser Phe Val Ile
306 305                   310
310 <210> SEQ ID NO: 14
311 <211> LENGTH: 298
312 <212> TYPE: PRT
313 <213> ORGANISM: Mus musculus
315 <400> SEQUENCE: 14
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317 1                   5                    10                   15
319 Leu Ile Val Ala Leu Asp Tyr His Lys Ala Asn Gly Phe Ser Ala Ser
320             20                    25                    30
322 Lys Asp His Arg Gln Glu Val Thr Val Ile Glu Phe Gln Glu Ala Ile
323       35                    40                    45
325 Leu Ala Cys Lys Thr Pro Lys Lys Thr Thr Ser Ser Arg Leu Glu Trp
326 .    50                    55                    60
328 Lys Lys Val Gly Gln Gly Val Ser Leu Val Tyr Tyr Gln Gln Ala Leu
329 65                    70                    75                    80
331 Gln Gly Asp Phe Lys Asp Arg Ala Glu Met Ile Asp Phe Asn Ile Arg
```

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

F.Y.I. →

VERIFICATION SUMMARY   DATE: 06/28/2001
PATENT APPLICATION: US/09/524,531A   TIME: 16:11:05

Input Set : **A:\11422679.app**
Output Set: **N:\CRF3\06282001\I524531A.raw**

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:40 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:57 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:74 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:539 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:18
L:559 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:19
L:579 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:20